

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P239454

Luminaire Tested: **UTLD-AF24-40-D-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-10-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-40-D-U-T3
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4384 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

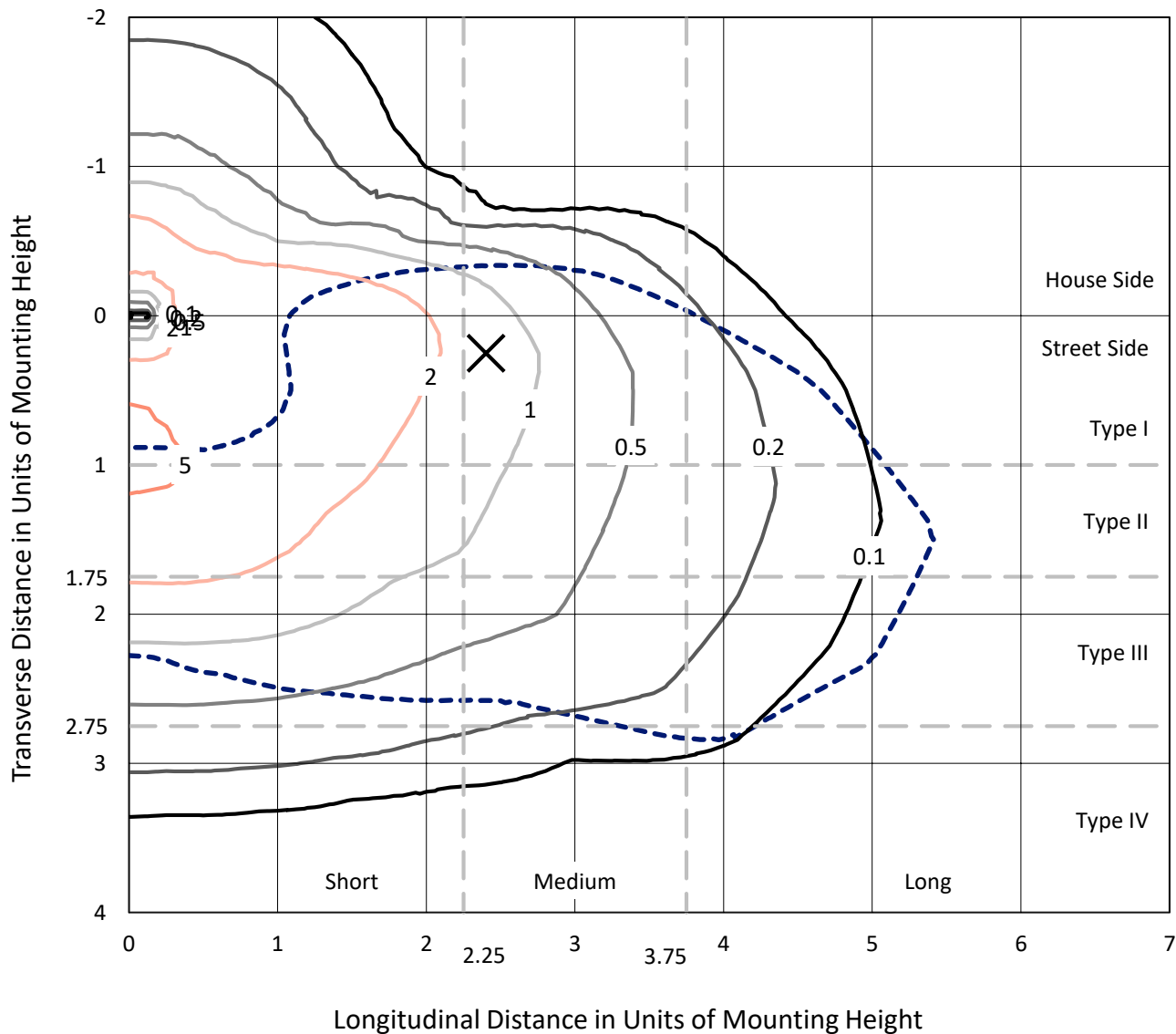


REPORT NUMBER: P239454

CATALOG NUMBER: UTLD-AF24-40-D-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

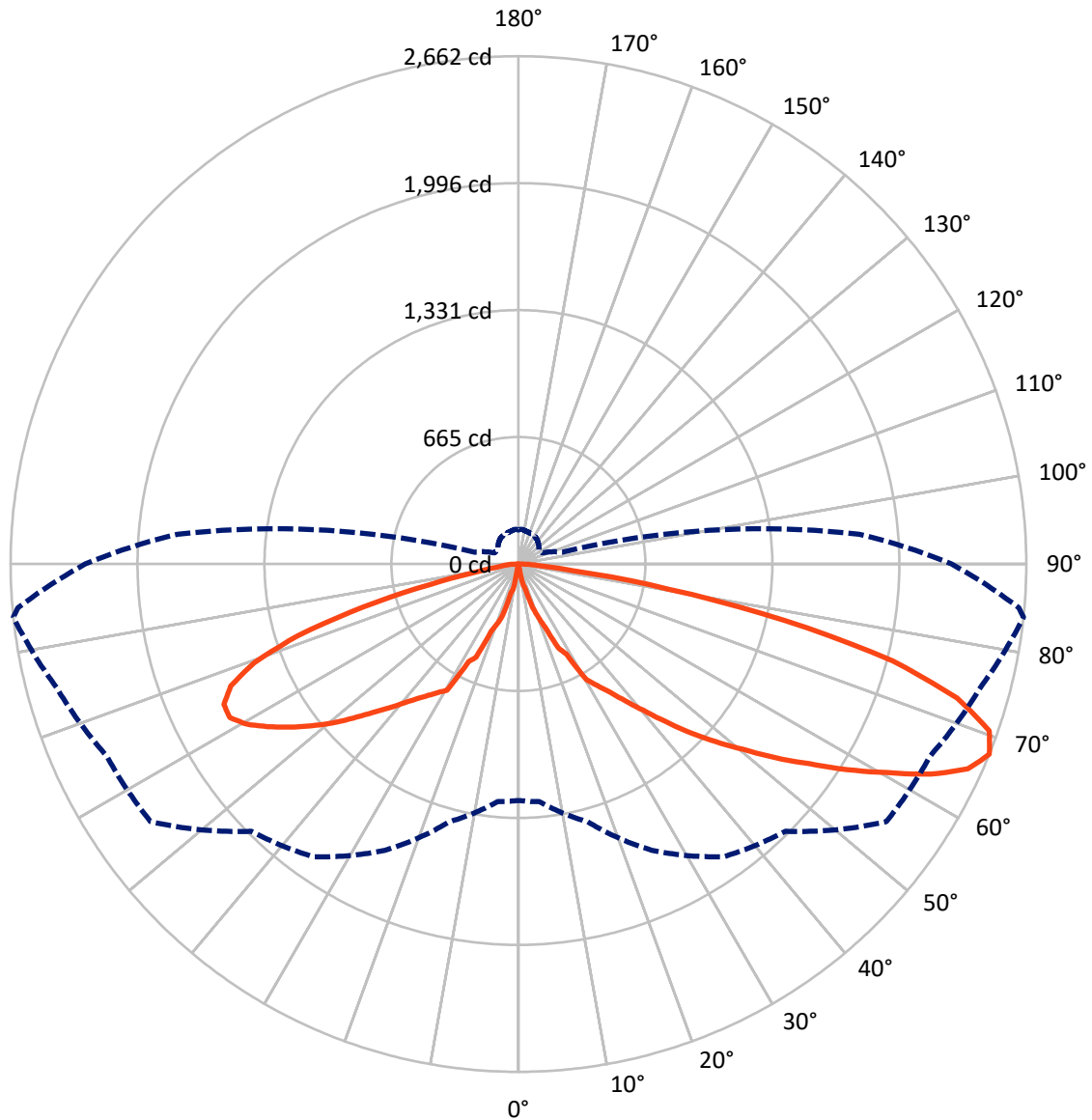


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P239454

CATALOG NUMBER: UTLD-AF24-40-D-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P239454

CATALOG NUMBER: UTLD-AF24-40-D-U-T3

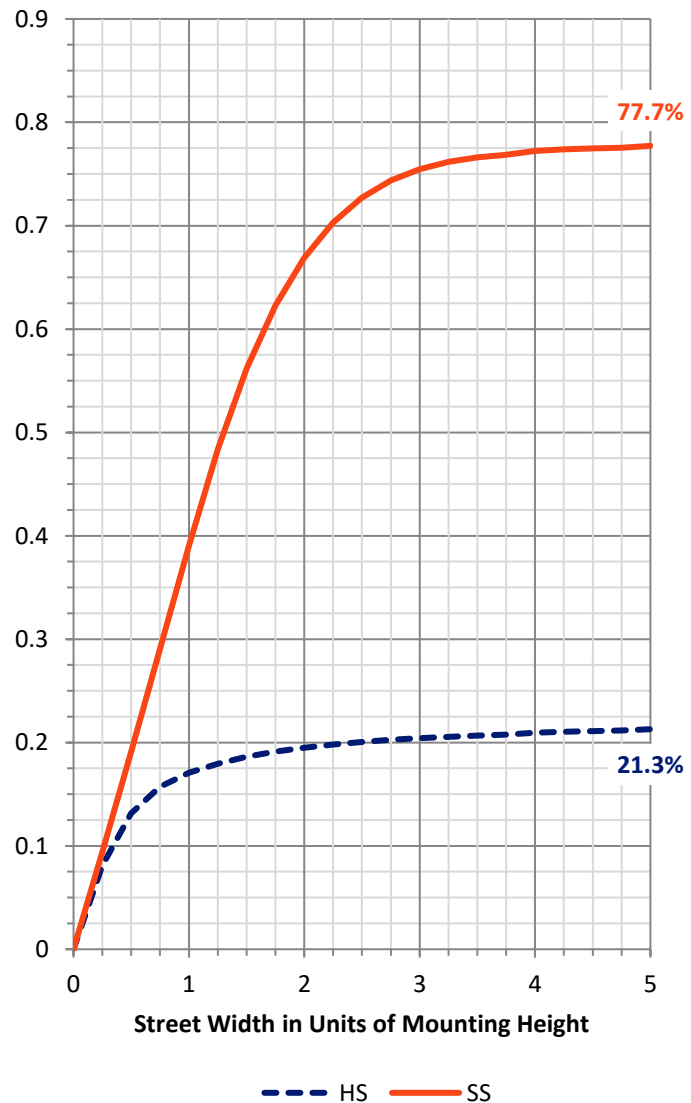
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	958.3	0.0	958.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3425.7	0.0	3425.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	4384.0	0.0	4384.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	52.7	1.2
20°-30°	194.0	4.4
30°-40°	393.7	9.0
40°-50°	651.5	14.9
50°-60°	988.9	22.6
60°-70°	1179.7	26.9
70°-80°	790.1	18.0
80°-90°	129.7	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4384.0	100.0
0°-180°	4384.0	100.0



REPORT NUMBER: P239454

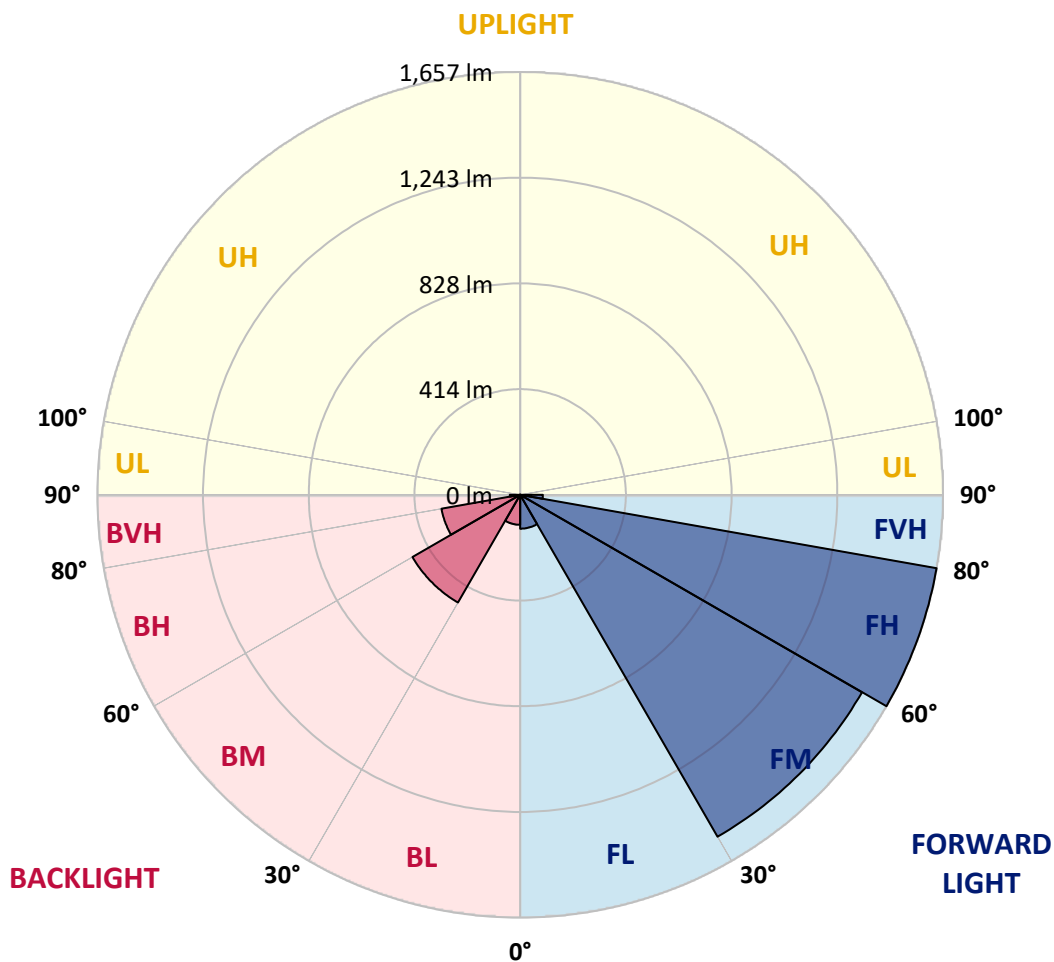
CATALOG NUMBER: UTLD-AF24-40-D-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	132.8	3.0			
FM	(30°-60°)	1547.0	35.3			
FH	(60°-80°)	1656.9	37.8			G1/1800
FVH	(80°-90°)	89.0	2.0			G1/100
BL	(0°-30°)	117.5	2.7	B1/500		
BM	(30°-60°)	487.2	11.1	B1/1000		
BH	(60°-80°)	312.8	7.1	B1/500		G1/500
BVH	(80°-90°)	40.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





REPORT NUMBER: P239454

CATALOG NUMBER: UTLD-AF24-40-D-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	22.8	22.3	19.2	14.2	7.6	4.1	2.0	1.5	1.0	1.0	1.0
5°	81.5	81.5	82.0	81.5	79.5	75.5	22.8	7.6	2.0	1.0	1.0
7.5°	81.0	81.5	81.5	81.5	81.5	80.5	79.0	41.5	5.1	2.0	2.0
10°	146.4	145.8	144.8	104.3	86.6	82.0	82.5	67.4	18.2	9.1	8.6
12.5°	155.0	154.5	154.5	154.5	150.9	99.3	92.2	122.0	140.3	112.9	112.9
15°	187.4	185.9	173.2	161.5	159.0	155.0	173.2	174.2	173.7	129.1	137.2
17.5°	252.2	252.2	246.6	229.4	181.3	217.3	223.8	191.9	233.0	235.5	255.2
20°	292.7	295.2	279.0	267.4	285.1	237.5	245.6	290.7	307.4	298.3	298.8
22.5°	436.5	432.0	405.1	322.6	329.7	297.3	316.5	338.3	340.3	360.1	347.4
25°	492.7	492.2	480.1	456.3	388.4	385.4	345.9	428.4	472.0	486.2	491.7
27.5°	656.8	655.8	583.9	522.1	479.6	436.0	451.7	487.7	504.9	535.8	539.3
30°	708.0	707.5	680.6	641.1	561.6	533.3	519.1	565.2	663.9	703.4	710.0
32.5°	900.4	897.9	804.2	687.7	651.3	614.8	602.6	667.5	717.1	758.6	764.2
35°	984.0	988.0	933.3	826.5	699.9	670.0	709.5	744.9	777.9	823.4	832.6
37.5°	1063.0	1076.1	1055.4	911.0	795.1	751.5	791.0	809.3	874.6	909.5	917.1
40°	1205.3	1208.3	1166.8	1019.4	893.8	838.1	881.2	908.0	962.7	1007.8	1014.9
42.5°	1415.9	1405.3	1331.9	1172.4	1003.2	952.6	976.4	999.7	1086.3	1126.8	1134.9
45°	1610.9	1608.4	1545.6	1341.5	1161.7	1080.7	1088.8	1097.9	1192.1	1261.0	1246.3
47.5°	1754.2	1742.1	1721.3	1531.9	1376.4	1229.6	1197.2	1189.1	1317.2	1391.1	1384.0
50°	1901.6	1879.8	1860.6	1679.3	1565.3	1393.2	1302.0	1304.0	1454.4	1527.9	1525.8
52.5°	1998.8	1958.8	1953.8	1810.4	1699.5	1556.2	1424.6	1443.3	1597.2	1686.4	1682.8
55°	1962.9	1960.9	2011.0	1915.3	1822.1	1659.0	1557.7	1591.7	1747.7	1847.4	1865.1
57.5°	1856.5	1879.3	1988.7	1976.0	1964.4	1763.4	1716.3	1762.8	1939.6	2033.3	2044.9
60°	1761.8	1785.1	1921.4	1977.6	2031.2	1857.5	1886.9	1964.4	2093.0	2220.1	2248.5
62.5°	1598.3	1630.7	1796.3	1966.9	1998.8	1929.5	2060.1	2124.9	2249.0	2425.2	2444.0
65°	1420.5	1434.2	1602.3	1841.3	1958.8	1966.4	2215.6	2266.2	2394.9	2589.3	2596.4
67.5°	1239.2	1250.3	1398.2	1655.0	1873.2	1980.6	2353.8	2380.7	2505.3	2661.7	2632.9
70°	981.4	1005.2	1107.5	1358.7	1721.8	1966.9	2483.0	2437.4	2543.2	2618.2	2544.8
72.5°	561.1	560.1	674.0	890.8	1300.5	1786.1	2549.3	2448.0	2504.7	2405.0	2307.2
75°	202.6	191.4	246.1	386.9	691.3	1262.0	2344.2	2380.7	2336.1	2026.2	1895.5
77.5°	100.8	104.8	124.6	180.3	301.8	569.7	1719.3	1970.0	1980.1	1431.6	1347.6
80°	74.9	78.0	91.7	119.0	178.3	201.0	814.3	1240.7	1305.0	798.1	737.9
82.5°	59.8	61.3	75.5	86.1	131.7	112.4	211.2	543.9	610.2	287.1	268.9
85°	57.2	57.7	64.8	62.3	92.7	71.9	102.3	197.5	223.3	102.8	95.7
87.5°	30.9	30.9	61.3	43.0	52.7	38.0	59.8	83.6	108.4	53.7	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P239454

CATALOG NUMBER: UTLD-AF24-40-D-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	1.0	1.0
5°	1.0	1.0	1.0	1.5	1.5	2.0	2.0	3.0	3.5	4.1	3.5
7.5°	1.5	1.5	1.5	2.5	3.0	4.6	10.1	40.5	79.0	82.0	81.0
10°	9.6	9.6	6.6	6.1	7.6	72.4	100.8	104.8	108.9	110.4	110.4
12.5°	123.6	135.7	133.7	101.3	74.9	105.3	112.4	115.5	121.0	145.8	150.4
15°	149.4	154.5	159.0	148.9	214.2	127.6	132.7	208.6	219.3	220.8	220.8
17.5°	263.8	289.2	211.2	207.1	229.9	240.5	203.1	221.8	223.8	225.4	226.4
20°	322.6	332.7	317.5	343.4	252.2	298.3	269.9	240.0	313.5	322.1	322.6
22.5°	375.8	382.3	359.6	369.7	369.2	303.3	310.4	293.2	316.5	317.0	317.5
25°	519.6	538.3	522.1	475.5	373.2	358.0	323.1	306.9	359.1	378.8	380.3
27.5°	576.8	577.3	537.3	486.2	412.2	368.7	316.5	360.6	356.5	359.1	359.6
30°	749.5	767.2	692.3	494.3	393.5	348.4	346.9	339.8	362.6	391.0	391.0
32.5°	804.2	803.2	704.4	544.4	383.4	342.8	315.0	339.3	348.9	357.0	356.0
35°	855.3	848.3	718.6	517.1	380.3	307.4	296.3	304.9	341.8	358.5	357.5
37.5°	921.2	900.9	726.2	478.1	344.4	289.2	273.5	292.2	303.3	304.9	302.3
40°	1000.7	965.7	739.4	446.7	312.5	266.4	254.2	260.8	267.9	261.3	257.8
42.5°	1092.9	1044.7	747.5	412.2	287.6	249.2	234.5	238.5	242.1	234.0	230.9
45°	1207.8	1128.3	749.5	381.3	267.9	235.5	217.3	219.8	224.3	217.8	216.2
47.5°	1340.5	1231.6	750.5	359.6	250.7	220.8	203.1	205.6	211.2	204.6	203.1
50°	1491.4	1342.5	756.6	338.8	228.9	205.1	191.4	194.5	200.5	194.0	193.5
52.5°	1652.4	1445.8	757.1	309.4	205.6	190.4	183.3	190.9	206.6	192.9	191.4
55°	1807.9	1550.7	759.6	266.9	182.8	179.8	178.3	196.5	217.8	192.4	188.9
57.5°	1969.5	1655.5	754.1	224.3	167.6	170.2	181.8	198.0	214.7	192.4	186.9
60°	2123.4	1760.3	691.3	189.9	155.5	163.6	183.8	194.0	196.5	188.9	185.9
62.5°	2259.1	1842.4	557.1	168.1	145.8	159.5	180.3	184.3	185.9	185.3	183.8
65°	2316.4	1858.1	377.8	152.4	137.7	155.0	173.7	177.8	180.3	182.3	179.8
67.5°	2269.8	1792.7	238.0	138.3	131.2	148.9	164.6	171.7	175.2	182.8	179.3
70°	2116.8	1622.6	173.7	129.1	124.1	139.8	156.5	166.6	170.2	177.2	171.7
72.5°	1836.8	1332.9	143.8	118.0	116.0	131.7	149.4	161.0	162.1	162.1	157.5
75°	1390.6	927.3	122.6	108.4	105.8	122.6	141.8	151.9	151.9	146.9	143.8
77.5°	871.5	511.0	106.3	99.3	96.2	111.9	133.2	140.8	139.3	133.2	130.7
80°	416.3	216.7	93.7	89.1	87.6	101.8	123.6	128.6	125.6	119.5	114.5
82.5°	166.6	105.8	82.5	78.0	78.0	91.2	113.9	117.5	112.9	121.0	95.7
85°	76.5	70.4	66.8	64.3	65.8	73.9	99.3	102.8	98.2	82.0	77.5
87.5°	43.0	47.6	39.5	41.0	44.6	52.2	73.9	70.4	69.9	53.2	48.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)